



U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Biopesticides and Pollution Prevention Division (7511P)  
1200 Pennsylvania Ave., N.W.  
Washington, D.C. 20460

EPA Reg. Number:

75747-4

Date of Issuance:

6/6/2018

NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration  
(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

BOTRY-Zen WP

Name and Address of Registrant (include ZIP Code):

Botry-Zen (2010) Limited  
156 Frederick Street, P.O. Box 1777  
Dunedin 9054  
New Zealand

**Note:** Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product, always refer to the above EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA or the Act).

Registration is in no way to be construed as an endorsement or recommendation of this product by the U.S. Environmental Protection Agency (EPA). In order to protect health and the environment, the Administrator, on his or her motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under the Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is unconditionally registered in accordance with FIFRA section 3(c)(5) provided that you:

1. Submit and/or cite all data required for registration or registration review of your product when the EPA requires all registrants of similar products to submit such data.

Signature of Approving Official:

Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution Prevention Division (7511P)  
Office of Pesticide Programs

Date:

6/6/2018

2. Submit storage stability and corrosion characteristics (Guidelines 830.6317 and 830.6320) data as these data requirements are not satisfied. A one-year study is required to satisfy these data requirements. You have 18 months from the date of this registration to provide these data to the EPA.
3. Make the following labeling change before you release this product for shipment:
  - Revise the EPA Registration Number to read, "EPA Reg. No. 75747-4."
4. Submit one (1) copy of the final printed labeling for the record before you release this product for shipment.

Should you wish to add/retain a reference to your company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the EPA. If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements the EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to the EPA's Office of Enforcement and Compliance Assurance.

Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6. A stamped copy of the labeling is enclosed for your records. Please also note that the record for this product currently contains the following acceptable Confidential Statement of Formula (CSF):

- Basic CSF dated 06/06/2018

Any CSFs other than that listed above are superseded.

If you have any questions, please contact Susanne Cerrelli by phone at (703) 308-8077 or via email at [cerrelli.susanne@epa.gov](mailto:cerrelli.susanne@epa.gov).

Sincerely,



Jeannine Kausch, Product Manager 92  
Microbial Pesticides Branch  
Biopesticides and Pollution  
Prevention Division (7511P)  
Office of Pesticide Programs

Enclosure

# BOTRY-Zen™ WP

## Biopesticide

**ACTIVE INGREDIENT:**

*Ulocladium oudemansii* (U3 Strain)\* .....45.00%

**OTHER INGREDIENTS:** .....55.00%

**TOTAL:** .....100.00%

\*Contains not less than  $8.0 \times 10^7$  cfu/gram of product.

### KEEP OUT OF REACH OF CHILDREN

### CAUTION

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15 – 20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>HOTLINE NUMBER</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.	

**See (back) (side) panel for additional precautionary statements and directions for use.**

**EPA Reg. No.:** 75747-U

**Net Weight:** 4 lbs (1.8 kg)

**EPA Establishment No.:** 075747-NZL-001

**Not for sale or use after (date stamped is 6 months after the date of manufacture):**

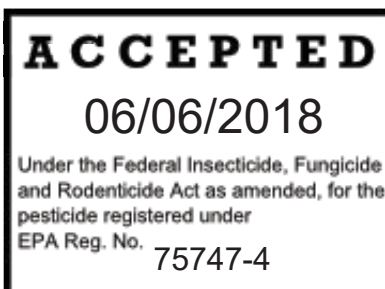
**Batch No. / Lot No.:**

**Manufactured by:**

Botry-Zen (2010) Limited  
156 Frederick Street, PO Box 1777  
Dunedin 9054  
New Zealand  
www.botryzen.co.nz

**Distributed by:**

*To be determined*



## PRECAUTIONARY STATEMENTS

**Hazards to Humans and Domestic Animals - CAUTION.** Harmful if inhaled. Causes moderate eye irritation. Avoid breathing dust or spray mist. Avoid contact with eyes or clothing. Remove and wash contaminated clothing before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

**Personal Protective Equipment (PPE):** Applicators and other handlers must wear protective eyewear, a long-sleeved shirt, long pants, waterproof gloves, socks and shoes. Mixer/loaders and applicators, must wear a minimum of a NIOSH-approved particulate filtering facepiece respirator with any R or P filter; OR a NIOSH-approved elastomeric particulate respirator with any R or P filter; OR a NIOSH-approved powered air-purifying respirator with an HE filter. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning / maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Engineering Controls:** When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4-5)), the handler PPE requirements may be reduced or modified as specified in the WPS.

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

**User Safety Recommendations:** Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**Environmental Hazards:** For terrestrial uses: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean highwater mark. Do not contaminate water when disposing of equipment washwater or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### Agricultural Use Requirements

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on the label about

personal protective equipment (PPE) and restricted-entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 4 hours.

PPE required for early entry to treated areas (that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water) is: protective eyewear, coveralls, waterproof gloves, socks and shoes.

#### **Use Restrictions:**

Do not apply this product through any type of irrigation system.

**Product Information:** BOTRY-Zen WP is a biological control agent developed specifically for the control of *Botrytis cinerea*, *Sclerotinia sclerotiorum* and other organisms listed in the **Application Rates** section in this label.

BOTRY-Zen WP is a live spore preparation of a non-pathogenic saprophytic fungus. BOTRY-Zen WP acts as a biological control agent by competing for the same ecological niche as the plant pathogens *Botrytis cinerea*, *Sclerotinia sclerotiorum* and other organisms listed in the **Application Rates** section.

When BOTRY-Zen WP spores are deposited on the dead and senescent plant debris, they germinate and colonize. The developed mycelium will proceed to colonize the dead tissue and additional sporulation can occur; these new spores are then available to colonize remaining debris. Apply BOTRY-Zen WP when conditions are conducive to the development of disease, specifically warm temperatures (60 - 70°F) and a moist or humid environment. Disease typically develops during flowering and under warm and moist or humid conditions.

BOTRY-Zen WP aggressively occupies the same physical space and outcompetes *Botrytis* spp., *Sclerotinia* spp., and other organisms listed in the **Application Rates** section for the nutrients in the dead and senescing plant tissue; it is a true antagonist. BOTRY-Zen WP is non-invasive and causes no damage to live plant tissue. With this mechanism of action, it is highly unlikely that resistance to BOTRY-Zen WP will develop.

**(Integrated Pest Management (IPM):** Integrating BOTRY-Zen WP into an overall pest management strategy and following best management practices (or practices known to reduce disease development) make it less likely that disease will be established. Specific IPM strategies developed for your crop and location may be available from the Extension Service or other local agricultural authorities.)

#### **Mixing and Application Instructions:**

**MIXING:** Dilute BOTRY-Zen WP with water and apply in conventional spray equipment. Partially fill the spray tank with clean water and begin agitation. Add a surfactant or a non-ionic adjuvant to improve product wetting / spreading. Add the specified amount of BOTRY-Zen WP to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. Use spray mixture immediately. Do not allow spray mixture to stand overnight or for prolonged periods.

**APPLICATION:** Apply BOTRY-Zen WP using conventional spray equipment to the point of saturation. Good coverage and wetting is required. The amount of spray solution to apply will vary depending on the type of crop. Most row crops will require up to 100 gallons of spray per acre. Apply in sufficient water to achieve thorough coverage.

**COMPATIBILITY:** BOTRY-Zen WP may be tank mixed with some fungicides and/or bacteriocides. Do not tank mix BOTRY-Zen WP with more than one product. Consult specific product labels for additional information or restrictions concerning tank mixing. Observe the most restrictive of the labeling limitations and precautions of all products used in mixtures. It is always advisable to conduct a spray compatibility test when you plan to mix this product with another product. To determine the physical compatibility of this product with other products, use a jar test. Using a quart jar, add the proportionate amounts of the products to approximately one quart of water with agitation. Add dry formulations first, then flowables, and then emulsifiable concentrates last. After thorough mixing, allow this mixture to stand for 5 minutes. If the combination remains mixed or can be readily remixed, it is physically compatible. Once compatibility has been proven, use the same procedure for adding products to the spray tank.

BOTRY-Zen WP has been evaluated for phytotoxicity on a variety of crops under various normal growing conditions. However, testing all crop varieties, in all mixtures and combinations, is not feasible. Prior to treating entire crop, test a small portion of the crop for sensitivity.

## Application Rates:

Crops	Disease	Lbs Product /Acre	Notes
<b>Asparagus</b>	Botrytis Blight	2 - 4	Begin application soon after emergence and when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Berries and Small Fruits, including (except for Grapes, Kiwifruit and Strawberries):</b>  Blackberry Blueberry Bushberry Caneberry Cranberry Currants Elderberry Gooseberry Huckleberry Loganberry Raspberry	Botrytis Blight  Mummy Berry <i>(Monilinia vaccinii-corymbosi)</i>	2 - 4	Apply during early bloom and repeat on a 7- to 10-day interval or as needed.
<b>Bulb Vegetables, including:</b>  Garlic Leeks Onions Shallots	Botrytis Leaf Blight  Botrytis Neck Rot  <i>Botrytis squamosa</i>  <i>Botrytis</i> spp.	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Citrus Fruits, including:</b>  Calamondin Citrus citron Citrus hybrids Grapefruit Kumquat Lemon Lime Mandarin Orange, sour and sweet Pummelo Satsuma mandarin	<i>Botrytis cinerea</i>	2 -4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Cucurbit Vegetables, including:</b>  Cucumbers	Gray Mold ( <i>Botrytis cinerea</i> )	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.

Melons Squash Zucchini			
<b>Fruiting Vegetables, including:</b>  Eggplant Okra Pepper Tomato Tomatillo	Gray Mold ( <i>Botrytis cinerea</i> )	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Grapes</b>	Gray Mold ( <i>Botrytis cinerea</i> )	2 - 4	Apply at early and late bloom, then again when the berries are pea-sized, and finally at pre-bunch closure. Spray onto vines, ensuring the bunch zone is well covered.
<b>Kiwifruit</b>	Gray Mold ( <i>Botrytis cinerea</i> )  <i>Sclerotinia sclerotiorum</i>	2 - 4	Make applications at 30% and 80% flowering. Do not apply after the bloom period.
<b>Leafy Vegetables and Brassica (Cole) Leafy Vegetables, including:</b>  Broccoli Cabbage Celery Collards Lettuce Spinach	Sclerotinia Head and Leaf Drop  <i>Sclerotinia</i> spp.  <i>Botrytis cinerea</i>	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Legume Vegetables (Succulent or Dried), including:</b>  Field beans Lentils Peas Soybeans  <b>Peanuts</b>	<i>Sclerotinia sclerotiorum</i>  Sclerotinia Stem Rot	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Ornamental Plants</b>  <b>Bedding Plants</b>	Gray Mold ( <i>Botrytis cinerea</i> )	2 - 4	Ornamentals grown in nurseries and greenhouses. Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Passionfruit</b>	Gray Mold ( <i>Botrytis cinerea</i> )  <i>Sclerotinia sclerotiorum</i>	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Pome Fruits, including:</b>  Apple	<i>Erwinia amylovora</i>	2 - 4	Apply at early and late bloom. For extended bloom periods, apply on a 7- to 10-day interval.



Crabapple Loquat Mayhaw Pear Pear, oriental Quince			
<b>Root and Tuber Vegetables, including:</b>  Beets Carrots Cassava Ginger Potato Radish Sugar beets Sweet potato Yams	Gray Mold ( <i>Botrytis cinerea</i> )  <i>Sclerotinia sclerotiorum</i>	2 - 4	Begin application when conditions are conducive to disease development.* Repeat on 7- to 10-day intervals or as needed.
<b>Stone Fruits, including:</b>  Apricot Cherry, sweet and tart Nectarine Peach Plum Plumcot Prune (fresh)	Brown Rot Blossom Blight ( <i>Monilinia</i> spp.)  Jacket Rot, Green Fruit Rot ( <i>Botrytis cinerea</i> , <i>Monilinia</i> spp., <i>Sclerotinia sclerotiorum</i> )	2 - 4	Apply at early and late bloom. For extended bloom periods, apply on a 7- to 10-day interval.
<b>Tree Nuts, including:</b>  Almond Beech nut Brazil nut Butternut Cashew Chestnut Chinquapin Filbert (hazelnut) Hickory nut Macadamia nut Pecan Walnut, black and English	Brown Rot Blossom Blight ( <i>Monilinia</i> spp.)  Jacket Rot, Green Fruit Rot ( <i>Botrytis cinerea</i> , <i>Monilinia</i> spp., <i>Sclerotinia sclerotiorum</i> )	2 - 4	Apply at early and late bloom. For extended bloom periods, apply on a 7- to 10-day interval.
<b>Strawberries</b>	Gray Mold ( <i>Botrytis cinerea</i> )	2 - 4	Begin application at or before flowering. Repeat on 7- to 10-day intervals or as needed up until harvest.

\* See **Product Information** section for description of when conditions are conducive to disease development.

### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

**Pesticide Storage:** Store in a cool, dry place at or below 68°F (20°C). Store in original container only. Keep container tightly closed when not in use.

**Pesticide Disposal:** Wastes resulting from use of this product must be disposed of on site or at an approved waste disposal facility.

**Container Handling:** Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available, or dispose of empty bag in a sanitary landfill or by incineration. Do not burn, unless allowed by state and local ordinances. If burned, stay out of smoke.

### WARRANTY STATEMENTS

Botry-Zen (2010) Limited warrants that this product conforms to its description and is reasonably fit for the purposes stated on this label when used in accordance with Seller's directions. Buyers and Users of this product assume the risk of any use contrary to such directions. SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OR GUARANTEE, INCLUDING ANY OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY, AND NO AGENT OF SELLER IS AUTHORIZED TO DO SO. To the extent consistent with applicable law, the Seller's liability for any breach of warranty shall not exceed the purchase price of the material as to which a claim is made.

To the extent consistent with applicable law, Buyers and Users of this product are responsible for all loss or damage from use or handling of this product that results from conditions beyond the control, fault or negligence of the Seller.

## OPTIONAL LABEL CLAIMS

- Biopesticide.
- Biological control of (*Botrytis cinerea*) (*Sclerotinia sclerotiorum*) (*Monilinia* spp.).
- The Biological Solution for *Botrytis cinerea* and *Sclerotinia sclerotiorum* and *Monilinia* spp.
- 4-Hour Restricted-Entry Interval (REI).